

*BACnet supported via Wi-Fi/Ethernet port



EXT-KA-SE100

Contents

Protocol Implementation Conformance Statement – PICS	2
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Protocol Implementation Conformance Statement – PICS

General information	Date	14.08.2023
	Product Name	EXT-KA-SE100
	BACnet Protocol Revision	14
	Product Description	Indoor Air Quality sensor
	BACnet Standard Device Profile	BACnet Smart Sensor (B-SS)
	Segmentation capability	No
	Data Link Layer Options	BACnet IP, (Annex J) BACnet IP, (Annex J), Foreign Device
	Device Address Binding	No static device binding supported
	Character Sets Supported	ISO 10646 (UTF-8) ISO 10646 (UCS-2) ISO 8859-1
BACnet Interoperability Building Blocks supported BIBBs	Data sharing – ReadProperty-B (DS-RP-B)	
	Data sharing – ReadPropertyMultiple-B (DS-RPM-B)	
	Data sharing – WriteProperty-B (DS-WP-B)	
	Data sharing – COV-B (DS-COV-B)	
	Device management – DynamicDeviceBinding-B (DM-DDB-B)	
	Device management – DynamicObjectBinding-B (DM-DOB-B)	
BACnet IP Parameterisation	Port	open (Default: 47'808 0xBAC0)
	Tool	through integrated display



EXT-KA-SE100 supports both IPv4 and IPv6.2. **BACnet IP is supported over Wi-Fi and Ethernet.**
EXT-KA-SE100 does not support BACnet MS/TP.

Setting up BACnet through integrated display:

1. Enable BACnet: Settings / Device Details / Connectivity / BACnet IP / Enable
2. Setting Device ID: Settings / Device Details / Connectivity / BACnet IP / Device ID
*The range of allowed Device IDs is 0-4194302
3. Setting UDP Port: Settings / Device Details / Connectivity / BACnet IP / UDP Port
*Default 47808, The range of allowed UDP ports 47808 - 47823
4. Restarting service: Settings / Device Details / Connectivity / BACnet IP / Restart service
*Use this button to restart BACnet service during setup

Setting up W-Fi network connection through integrated display:

1. Settings / Wi-Fi / Select SSID for connection
*Device support 2.4GHz Wi-Fi, 802.11b/g/n, 64/128 WEP, WPA-PSK, WPA2-PSK, WPA, WPA2
*Internal PKI is NOT supported
2. Settings / Wi-Fi / IP address / Configure / Choose Auto or Manual connection
*Auto or manual method for acquiring IP address, Subnet Mask, and Gateway.

Setting up Ethernet connection through integrated display:

1. Settings / Ethernet / Connection status, IP, DNS, MAC address, IP configure method auto or manual.
*Configure IP to manually set IP address, Subnet Mask, and Gateway.

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Standard Object Types Supported

Object type	ID	Object Name
Analog Input [AI]	0	PM2.5
Analog Input [AI]	1	PM10
Analog Input [AI]	2	TVOC
Analog Input [AI]	3	Temperature
Analog Input [AI]	4	Humidity
Analog Input [AI]	5	CO2
Analog Input [AI]	6	Unassigned
Analog Input [AI]	7	KM10X Module Lifespan
Analog Input [AI]	8	KM10X Module Lifespan

EXT-KA-SE100 exposes the following Analog Input objects. All objects support COV Increment.

Dynamically Creatable: YES

Dynamically Deletable: YES

Optional Properties Supported:

Description

COV Increment

Reliability

Writable Properties:

Units

COV_Increment

Object type	ID	Object Name
Device	<user-specified-id>	"Sensedge"

Dynamically Creatable: NO

Dynamically Deletable: NO

Optional Properties Supported:

Description

Location

Active_COV_Subscription

Writable Properties:

Object_Identifier

Object_Name

Description

Location

APDU_Timeout

Number_Of_APDU_Retries